

Preface

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Published online: 29 October 2013
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This issue of The Visual Computer Journal presents a mixture of six regular papers and four extended papers, selected among the best papers presented at the 5th Eurographics Workshop on 3D Object Retrieval, held in Cagliari, Italy, May 13, 2012.

The six regular papers are the following: In the first paper, Sadid Sahami and Mehdi Chehl Amirani employ the Strip Spectral Correlation Analyzer (SSCA) as the new and superior method in texture classification. In the second paper, Liu Bin et al. present an improved system for 3D individualized modeling of the artificial femoral head. Then, in the third paper, Munaf Rashid et al. present human emotion recognition systems based on audio and spatio-temporal visual features. A novel formulation is presented by Sean Curtis et al. in the fourth paper, which provides a well-disciplined mechanism for modeling asymmetric relationships between pedestrians in crowds. Jeong-Mo Hong et al. propose a novel method to simulate fluids with turbulent small-scale details in the fifth paper. In the sixth paper, Wen-Kai Tai et al. propose an interactive and procedural approach to developing a tool for modeling Chinese tings, a featured Chinese architecture.

The other next four papers that were presented at the Eurographics workshop on 3D Object Retrieval 2012 have been duly extended. The first paper by Ivan Sipiran et al. presents a method to detect stable components on 3D meshes. Next, a fully automatic and real-time approach for person-independent recognition of facial expressions from dynamic sequences of 3D face scans is presented by Stefano Berretti et al. Konstantinos Sfikas et al. propose 3D object retrieval based on range image queries that represent partial views of real 3D objects in the third paper. And, last but not least, 3d object retrieval in an atlas of neuronal structures is discussed by Martin Trapp et al.

We would like to thank all international reviewers, who dedicated their precious time to reviewing all these papers. We also thank all authors for their contributions, and the effort made in addressing the reviewers' suggestions.

Finally, our thanks go to the Guest Editors of the four last papers: Alfredo Ferreira, Michael Bronstein, Alex Bronstein, and Michela Spagnuolo in handling the extended papers.

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